central axis of the opening so that the airflow generated by the fan assembly is in the form of an annular jet having a cylindrical or frusto-conical profile.

The user is able to change the direction in which the air flow is emitted from the nozzle in one of two ways. The base includes an oscillation mechanism which can be actuated to cause the nozzle and part of the base to oscillate about a vertical axis passing through the centre of the base so that that air flow generated by the fan assembly is swept about an arc of around 180°. The base also includes a tilting mechanism to allow the nozzle and an upper part of the base to be tilted relative to a lower part of the base by an angle of up to 10° to the horizontal.

SUMMARY

According a first example there is provided a nozzle for a fan assembly. The nozzle comprises an air inlet for receiving an air flow, a first air outlet for emitting an air flow and a second air outlet for emitting an air flow. The first and second air outlets comprise a pair of curved slots that are provided on a face of the nozzle, and the first and second air outlets are diametrically opposed and oriented towards a convergent point. The nozzle further comprises an intermediate surface that spans an area between the first and second air outlets. In other words, the intermediate surface extends across the distance that separates the first and second air outlets. The first and second air outlets are discrete. In other words, the first air outlet and the second air outlet are physically separated from one another. Preferably, the intermediate surface is outward facing, i.e. faces away from the centre of the nozzle.

In one aspect, the present disclosure refers to a nozzle for a fan assembly, the nozzle comprising:
an air inlet for receiving an air flow, a first air outlet for emitting an air flow and a second air outlet for emitting an air flow;
wherein the first and second air outlets comprise a pair of curved slots that are provided on a face of the nozzle;
wherein the first and second air outlets are diametrically opposed and oriented towards a convergent point;
wherein the nozzle further comprises an intermediate surface that spans an area between the first and second air outlets,
wherein the face of the nozzle comprises the intermediate surface;
wherein the first and second air outlets are each arranged to direct an air flow over at least a portion of the intermediate surface; and
wherein the first and second air outlets are each arranged to emit an airflow in a direction substantially parallel to the intermediate surface, and the intermediate surface is shaped such that the direction of each airflow subsequently diverges away from the intermediate surface and collide at and/or around the convergent point without interference from the intermediate surface.

The face of the nozzle may comprise the intermediate surface. The intermediate surface may extend at least partially across the face the nozzle. The intermediate surface may be flat or at least partially convex. The first air outlet and the second air outlet may be oriented towards a convergent point that is located on a central axis of the face of the nozzle.

The nozzle may further comprise a nozzle body or outer casing that defines one or more outermost surface of the nozzle. The nozzle body or outer casing therefore substantially defines the external shape or form of the nozzle. The face of the nozzle may therefore comprise the intermediate surface and a portion of the nozzle body that extends around or surrounds the periphery of the intermediate surface. The nozzle body may define an opening and the intermediate surface may then be exposed within the opening. The opening may be provided at the face of the nozzle.

The intermediate surface may define a portion of the first and second air outlets. The first air outlet may defined by a first portion of the nozzle body and a first portion of the intermediate

CLAIMS

1. A nozzle for a fan assembly, the nozzle comprising:

an air inlet for receiving an air flow, a first air outlet for emitting an air flow and a second air outlet for emitting an air flow;

wherein the first and second air outlets comprise a pair of curved slots that are provided on a face of the nozzle;

wherein the first and second air outlets are diametrically opposed and oriented towards a convergent point;

wherein the nozzle further comprises an intermediate surface that spans an area between the first and second air outlets,

wherein the face of the nozzle comprises the intermediate surface;

wherein the first and second air outlets are each arranged to direct an air flow over at least a portion of the intermediate surface; and

wherein the first and second air outlets are each arranged to emit an airflow in a direction substantially parallel to the intermediate surface, and the intermediate surface is shaped such that the direction of each airflow subsequently diverges away from the intermediate surface and collide at and/or around the convergent point without interference from the intermediate surface.

2. The nozzle of claim 1, wherein the first air outlet and the second air outlet are oriented towards a convergent point located on a central axis of the face of the nozzle.

3. The nozzle of any one of claims 1 or 2, wherein the intermediate surface defines a portion of the first and second air outlets.

4. The nozzle of any of claims 1 to 3, and further comprising a nozzle body that defines one or more outermost surfaces of the nozzle.

5. The nozzle of claim 4, wherein the face of the nozzle further comprises a portion of the nozzle body that extends around the periphery of the intermediate surface.

6. The nozzle of any one of claims 4 or 5, wherein the nozzle body defines an opening and the intermediate surface is exposed within the opening.

7. The nozzle of any one of claims 4 to 6, wherein the first air outlet is defined by a first portion of the nozzle body and a first portion of the intermediate surface and the second air outlet is defined by a second portion of the nozzle body and a second portion of the intermediate surface.

8. The nozzle of claim 7, wherein the first portion of the nozzle body has a shape that corresponds with a shape of the first portion of the intermediate surface and the second portion of the nozzle body has a shape that corresponds with a shape of the second portion of the intermediate surface.

9. The nozzle of claim 8, wherein the nozzle defines an opening between the intermediate surface and the nozzle body, and wherein the pair of curved slots are provided by separate portions of the opening.

10. The nozzle of claim 9, wherein portions of the opening between the pair of curved slots are each occluded by one or more covers.

11. The nozzle of any one of claims 1 to 10, wherein the nozzle has the general shape of a truncated sphere, with a first truncation defining the face of the nozzle and a second truncation defining at least part of a base of the nozzle.

12. The nozzle of any one of claims 1 to 11, and further comprising a base that is configured to be connected to a fan assembly, and wherein the base defines the air inlet of the nozzle.

13. The nozzle of claim 12, wherein the angle of the face of the nozzle relative to the base is fixed.

14. The nozzle of claim 13, wherein the angle of the face of the nozzle relative to the base is from 0 to 90 degrees, is more preferably from 0 to 45 degrees, and is yet more preferably from 20 to 35 degrees.

15. The nozzle of any one of claims 1 to 14, and further comprising a single internal air passageway extending between the air inlet and both the first and second air outlets.

16. The nozzle of claim 15, and further comprising a valve for controlling an air flow from the air inlet to the air outlets.

17. The nozzle of claim 16, wherein the first and second air outlets together define a combined air outlet of the nozzle, and the valve comprises one or more valve members which are moveable to adjust the size of the first air outlet relative to the size of the second air outlet while keeping the size of the combined air outlet of the nozzle constant.

18. The nozzle of claim 17, wherein one or more valve members are moveable through a range of positions between a first end position in which the first air outlet is maximally occluded and the second air outlet is maximally open and a second end position in which the first air outlet is maximally open and the second air outlet is maximally occluded.

19. A fan assembly comprising an impeller, a motor for rotating the impeller to generate an air flow, and a nozzle as claimed in any one of claims 1 to 18 for receiving the air flow.